

# Recombinant Cynomolgus Guanylyl cyclase C/GUCY2C Protein

Catalog No.: RP02645 **Recombinant**

## Sequence Information

| Species    | Gene ID   | Swiss Prot         |
|------------|-----------|--------------------|
| Cynomolgus | 102130850 | XP_00557027<br>0.1 |

### Tags

C-His

### Synonyms

Guanylyl cyclase C; GC-C; STAR;  
GUCY2C; GUC2C; STA receptor; DIAR6;  
EC 4.6.1; GCC; GUC2CEC 4.6.1.2; MUCIL

## Product Information

| Source       | Purification   |
|--------------|--|
| HEK293 cells | > 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC |

| Calculated MW | Observed MW |
|---------------|-------------|
| 47.2 kDa      | 60-75 kDa   |

### Endotoxin

Less than 1EU per µg by the LAL method.

### Formulation

#### Reconstitution

Centrifuge the tube before opening.  
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.  
Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact

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## Background

Guanylyl cyclase C (GUCY2C) has canonical centrality in defense of key intestinal homeostatic mechanisms, encompassing fluid and electrolyte balance, epithelial dynamics, antitumorigenesis, and intestinal barrier function. GUCY2C may represent a new target for anti-obesity pharmacotherapy.

## Basic Information

### Description

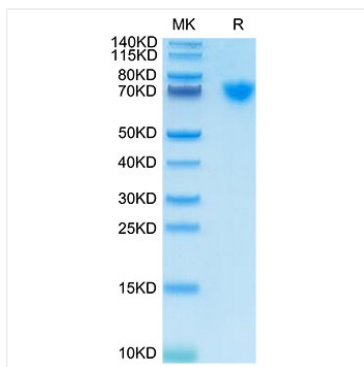
Recombinant Cynomolgus Guanylyl cyclase C/GUCY2C Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser24-Gln430) of cynomolgus Guanylyl cyclase C/GUCY2C (Accession #XP\_005570270.1) fused with His tag at the C-terminus.

### Bio-Activity

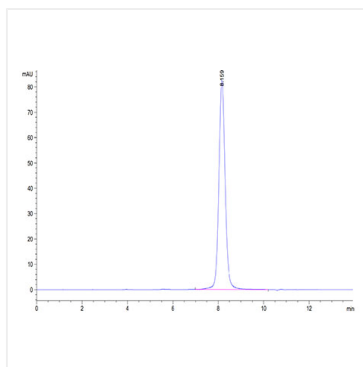
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

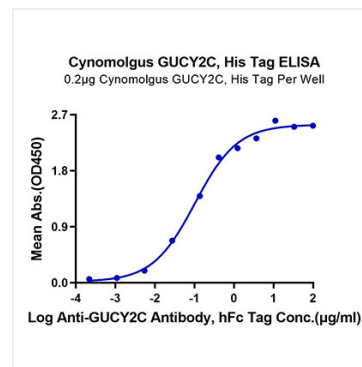
## Validation Data



Cynomolgus GUCY2C on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Cynomolgus GUCY2C is greater than 95% as determined by SEC-HPLC.



Immobilized Cynomolgus GUCY2C, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GUCY2C Antibody, hFc Tag with the  $EC_{50}$  of 103.3ng/ml determined by ELISA.